

Introduction

We started making sales of chemicals as a trade company since 2011. Luck Chemical was created as a subsidiary company of Luck Holding LP in 2015. Lately our company that tried to perform active selling attempted to become a sales representative of new prestigious partners, especially the manufacturers of chemical products. Our manufacturer that is in the same rank with **Tosoh Corporation of Japan** and covers an area of 22.000 square meters, was put into operation by private investment, with the capacity of production of more than 100 tons of chlorine per day by working 24 hours. That manufacturer began its activity as the first private company producing chlorine and its derivatives with the benefit of modern technology in the chlor-alkali industry and under Italian DENORA Co. and holder of certificate ISO 9001: 2008.

Introduction

Currently, the company with the development of 3 projects and with a registration capital of about \$7,000,000 as the largest producer in chlor-alkali industry in the private sector is supplier of raw materials for detergent industry, cosmetics, water and waste water treatment companies in the country, plants and power plants, pulp and paper plants and petrochemical, oil and gas industries as well.

Introduction

Using electrolysis technology, today the products that we supply are known as the best quality raw materials to produce detergents, bleaches and cosmetics materials. High quality and careful planning to ensure timely and satisfactory products are the most important task priorities of the company. With careful planning and product delivery and reduce costs of storage and hence elimination of problems related to timely supply of raw materials and loss of quality materials due to prolonged storage may be minimized.



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Our main products include



Sodium Hypochlorite (NaClO)



Hydrochloric Acid (HCl)



Caustic Soda (NaOH)



Liquid Chlorine (Cl₂)



Calcium Hypochlorite (Ca(ClO)₂)



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Sodium Hypochlorite (NaClO)

We cooperate with a specialized manufacturer of Sodium Hypochlorite with best quality and stability. This chemical is produced in the shortest possible time and without chlorate ions and other impurities by introducing Rapid Batch method. Using MBR cell method, the produced sodium hypochlorite is with no metallic impurities, and hence is supplied for detergent and bleach raw materials.

Sodium Hypochlorite (NaClO)

Row	Physical and chemical properties	Compliant Range
1	Active Chlorine _ g/L	70-170
2	Sodium Chlorate _ %W/W of active chlorine	Max 5.4
3	Density at 20°C _ g/mL	1.13-1.28
4	Ni _ mg/Kg of active chlorine	Max 2.5
5	Hg _ mg/Kg of active chlorine	Max 3.5
6	As _ mg/Kg of active chlorine	Max 1
7	Cd _ mg/Kg of active chlorine	Max 2.5
8	Cr _ mg/Kg of active chlorine	Max 2.5
9	Pb _ mg/Kg of active chlorine	Max 15
10	Sb _ mg/Kg of active chlorine	Max 20
11	Se _ mg/Kg of active chlorine	Max 20
12	Appearance	Yellow, Clear, Free of sediment and suspended particles



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Hydrochloric Acid (HCl)

Unlike most of products that are produced by traditional methods via the reaction of sulfuric acid with salt, the product that we supply is produced with the newest methods of direct synthesis of pure hydrogen and chlorine gases. On the other hand, the decrease in product quality can be prevented with continuous control so that customers are satisfied with cleanliness and colorless and transparent appearance of the product.

Hydrochloric Acid (HCl)

Row	Physical and chemical properties	Compliant Range
1	Concentration _ %W/W of HCl	Min 30
2	Density at 20°C _ g/mL	Min 1.15
3	Sulfate as SO_4^{2-} _ ppm	Max 100
4	Heavy metal as Pb _ ppm	Max 2
5	Free Chlorine and Bromine as C1 _ ppm	Max 20
6	Iron as Fe _ ppm	Max 5
7	Sulfite as SO_3^{2-} _ ppm	Max 50
8	Arsenic as As _ ppm	Max 1
9	Mercury as Hg _ ppm	Max 1
10	Copper as Cu _ ppm	Max 1
11	Lead as Pb _ ppm	Max 1
12	Appearance	Clear, Free of sediment and suspended particles



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Caustic Soda (NaOH)

The product uses electrolysis method which results in pure liquid caustic soda and free of metal impurities, and are marketed in two types: 30%-33% and 48%-50%; which are conventional caustic soda of industrial consumer units.

Caustic Soda (NaOH)

Row	Physical and chemical properties	Compliant Range
1	Purity of Sodium Hydroxide (NaOH) _ %W	Min 48
2	Carbonate as Na ₂ CO ₃ _ %W	Max 0.5
3	Chlorine as NaCl _ %W	Max 0.03
4	Sulfate as Na ₂ SO ₄ _ %W	Max 0.007
5	Silicate as SiO ₂ _ %W	Max 0.01
6	Fe _ mg/Kg	Max 10
7	Insoluble in water _ %W	Max 0.05
8	Aluminum as Al ₂ O ₃ _ mg/Kg	Max 10
9	Heavy metals as Pb _ mg/Kg	Max 10
10	Hg _ mg/Kg	Max 0.1
11	Arsenic as As ₂ O ₃ _ mg/Kg	Max 1
12	Appearance	Colorless, Clear, Free of sediment and suspended particles

Liquid Chlorine (Cl₂)

Rechargeable in 60, 400 and 800 kg cylinders for use in water and waste water treatment plants and other industrial companies.

Liquid Chlorine (Cl₂)

Row	Physical and chemical properties	Compliant Range
1	Active chlorine _ %W	Min 99.5
2	Residue after evaporation _ mg/Kg	Max 200
3	Moisture _ mg/kg	Max 100
4	Nitrogen Chloride _ mg/Kg	1-3000



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Calcium Hypochlorite ($\text{Ca}(\text{ClO})_2$)

This chemical product has white and dry granular and a purity of 65-70 percent. Calcium Hypochlorite Granules dissolve easily in water and are used in water treatment for disinfection and removal of bacteria, algae and micro-organisms. Calcium Hypochlorite derivatives are packaged with a water content of about 3 to 5% in 45 kg polyethylene drums. In addition to high quality, ease transportation, storage and easy usage of the product has caused great popularity among customers.

Calcium Hypochlorite (Ca(ClO)₂)

Row	Physical and chemical properties	Compliant Range
1	Active Chlorine _ %W	Min 65
2	Sodium Chloride _ %W	Max 20
3	Solubility as active chlorine _ %W	Min 45.5
4	Insoluble in water _ %W	Max 8
5	Amount of water _ %W	2-8
6	Residue on 425 micrometer sieve _ %W	Min 75
7	Residue on 2 mm sieve _ %W	Max 20
8	Cd _ mg/Kg of active chlorine	Max 10
9	Pb _ mg/Kg of active chlorine	Max 15
10	Ni _ mg/Kg of active chlorine	Max 10
11	Cr _ mg/Kg of active chlorine	Max 15
12	As _ mg/Kg of active chlorine	Max 10
13	Hg _ mg/Kg of active chlorine	Max 7
14	Sb _ mg/Kg of active chlorine	Max 15
15	Se _ mg/Kg of active chlorine	Max 20
16	Appearance	White granulated



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Quality Control

The quality control of the products is accomplished in various stages of production and the shipment of final products with the benefit of modern laboratory facilities and employing qualified staffs. Having modern up-to-date equipment, the laboratory is one of the most equipped laboratories specialized in chlorine-alkali industry in the region. The laboratory is accredited with ISO17025 standard.



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Shipment

We have significantly reduced transportation problems with the largest fleet of specialized chemicals which are specially equipped with tankers for transporting these materials and also using GPRS satellite tracking system as well as employing efficient and professional drivers and with precise control before and after loading. The problems due to unwanted chemical reactions caused by mixing different products and thus reduce the quality of the product has completely resolved by using a specific tanker to carry a specific product. After passing the handling of certain chemicals and special safety, the drivers are employed with the knowledge and necessary skills to carry the materials. On the other hand, GPRS system allows customers to be aware and control their ordered product at any given time, speed, distance to destination and the exact location.



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Support and after sales service

A Batch Number is assigned to each shipment or storage of samples to control and follow-up the potential problems. Thus, customers will be able to provide information such as date and delivery time to receive accurate information about product shipments.



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Contact

Please do not hesitate to contact us.

Suite 2, 5St. Vincent str.

P.O.Box.. EH3 6SW

Edinburgh, Great Britain (UK)

Tel : **+44 775 472 32 75**

Fax : **+44 019 191 12 30**

Email: info@luck-chemical.com

Email: sales@luck-chemical.com

Web: www.luck-chemical.com